

# Neuro-/Stromal-Immunology

11 October 2021

The Francis Crick Institute, London

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09:00 Registration & refreshments

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09:50 **Welcome**

James Harker, Imperial College London, UK and Fränze Prohászka, The Francis Crick Institute, UK

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**Session I: Neuro-Immunology**

Chairs: Johannes Schroth, Queen Mary University of London, UK and Carlos Minutti, Francis Crick Institute, UK

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10:00 **Neuroimmunometabolic mechanisms that slim down fat**

Ana Domingos, University of Oxford, UK (*Invited speaker*)

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10:30 **Chronically painful versus regenerating nerve injury is associated with differential myeloid cell states**

Zoe Hore, King's College London, UK (*Selected abstract*)

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10:45 **Phenotype of dorsal root ganglia macrophages in a model of arthritis pain**

Silvia Oggero, Kings College, London, UK (*Selected abstract*)

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11:00 **More than bystanders, learning how microglia eliminate neuronal synapses in the Alzheimer brain**

Soyon Hong, University College London, UK (*Invited speaker*)

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11:30 Tea/coffee break

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**Session II: Stromal-Immunology**

Chairs: Alice Burton, University College London, UK and Louisa James, Queen Mary University of London, UK

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12:00 **Involvement of immune- and non-immune-cells in the outcome of respiratory infection**

Andreas Wack, Francis Crick Institute, UK (*Invited speaker*)

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- 12:30     **Functional profiling and visualization of fibroblast and epithelial cell dynamics in the influenza virus infected lung**  
Julie C Worrell, University of Glasgow, UK (*Selected abstract*)
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- 12:45     **Bacterial LPS, liver stroma and myeloid cell interactions drive immunomodulatory CD14+CD8+T-cells in the human liver**  
Laura Pallett, University College London, UK (*Selected abstract*)
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- 13:00     **Lymph node tissue homeostasis and adaptation to immune challenge resolved by fibroblast network mechanics**  
Sophie Acton, University College London, UK (*Invited speaker*)
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- 13:30     Lunch, poster presentations and exhibition
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- Session III: Neuro-/Stromal-Immunology**  
Chairs: Ryan Thwaites, Imperial College London, UK and Gaëlle Le Fric, UCB Celltech, UK
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- 14:30     **Inflammation or damage: Fibroblasts decide**  
Chris Buckley, University of Oxford, UK (*Invited speaker*)
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- 15:00     **Immune contribution to the development of Fibromyalgia**  
Margot Maurer, King's College London, UK (*Selected abstract*)
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- 15:15     **Dissection and characterisation of stromal cells in persistent neuropathic pain**  
Sara Villa Hernandez, King's College London, UK (*Selected abstract*)
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- 15:30     **Regulation of intestinal immunity and tissue repair by enteric glia**  
Fränze Progzky, The Francis Crick Institute, UK (*Selected abstract*)
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- 15:45     **Neuro-immune interactions in the gut**  
Daniel Mucida, The Rockefeller University, USA (*Invited speaker*)
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- 16:25     Closing remarks and prize presentations  
Kevin Ng, Francis Crick Institute, UK
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- 16:40     Networking reception
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- 18:00     Close
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## Poster presentations

- P.01 Type I interferons mediate antiviral resistance to Zika virus in human microglia and macrophages**  
Catherine Hatton, Newcastle University, UK
- P.02 Autophagy-mediated transition of interleukin signalling is crucial to CD4+ T cell proliferation**  
Dingxi Zhou, University of Oxford, UK
- P.03 miR-21-5p regulates sensory neuron to macrophage communication via targeting TGF- $\beta$  pathway after nerve trauma**  
Lynda Zeboudj, King's College London, UK
- P.04 Skin Tregs generated early in life are crucial for adult skin homeostasis**  
Inchul Cho, King's College London, UK
- P.05 Acsf4 mutation leads to early and fast progressive hearing loss in mice associated with an inflammatory response within the inner ear**  
Elisa Martelletti, King's College London, UK
- P.06 The Innate Immune Response during Initiation of Mesothelioma-like Inflammation in the Pleural Space**  
Nadia Iqbal, Lancaster University, UK
- P.07 Lung inflammation causes pericyte loss and vascular remodeling: a role for mast cell activation?**  
Régis Joulia, Imperial College London, UK

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